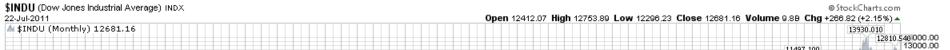


Computer Trading

November 2023



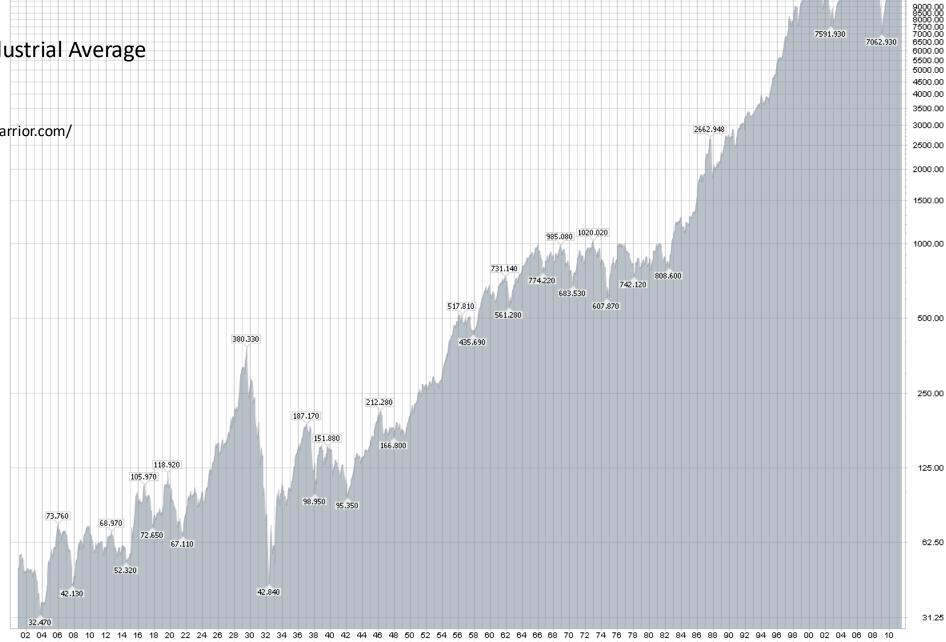
11497.100

12000.00 11000.00 10000.00

History of Dow Jones Industrial Average 1900-2010

Source: http://www.stock-trading-warrior.com/

Stock-Market-History-Graph.html





11497.100

7591.930

12000.00 11000.00 10000.00

9000.00 8500.00 8000.00 7500.00 7000.00 6500.00 6000.00

5500.00 5000.00

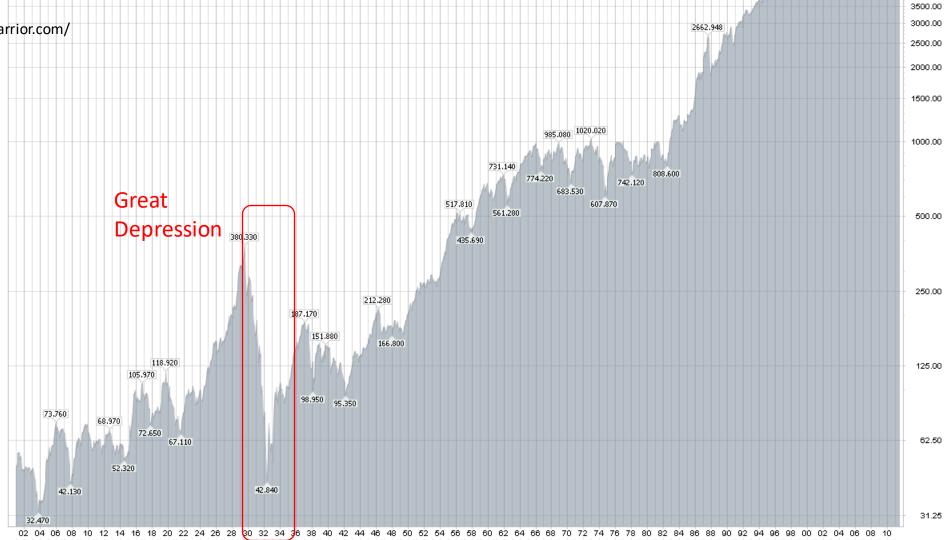
4500.00 4000.00

7062.930

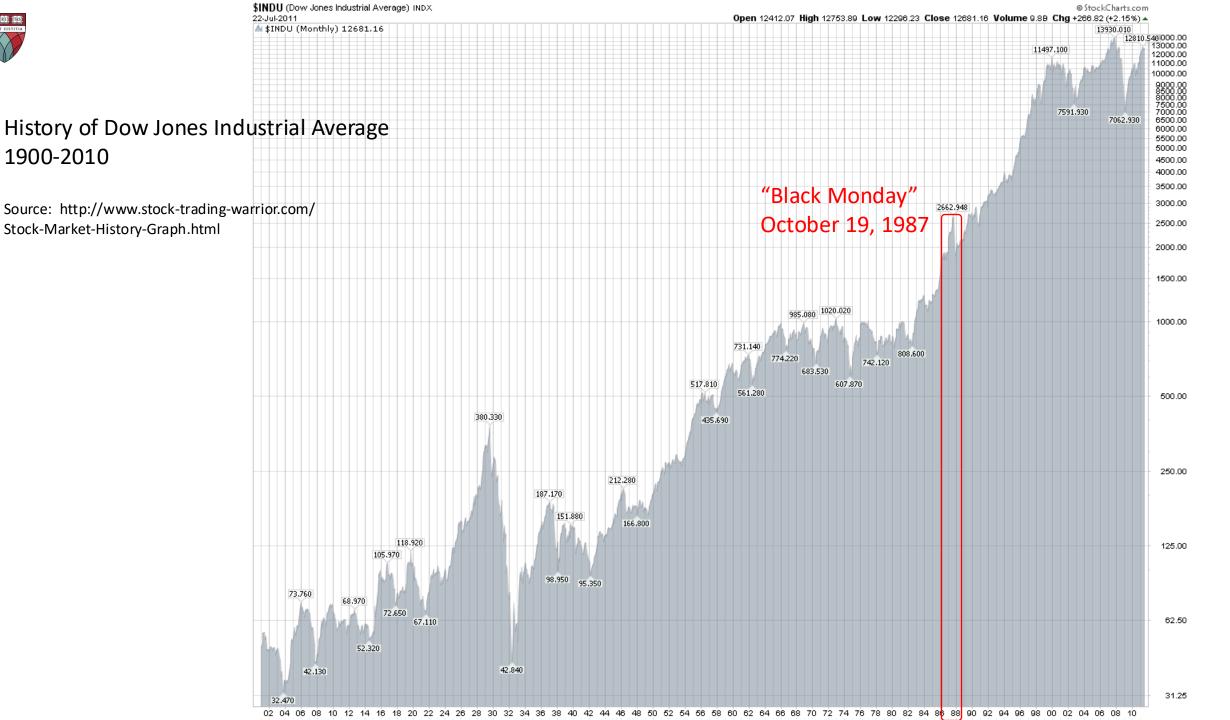
History of Dow Jones Industrial Average 1900-2010

Source: http://www.stock-trading-warrior.com/

Stock-Market-History-Graph.html



1900-2010





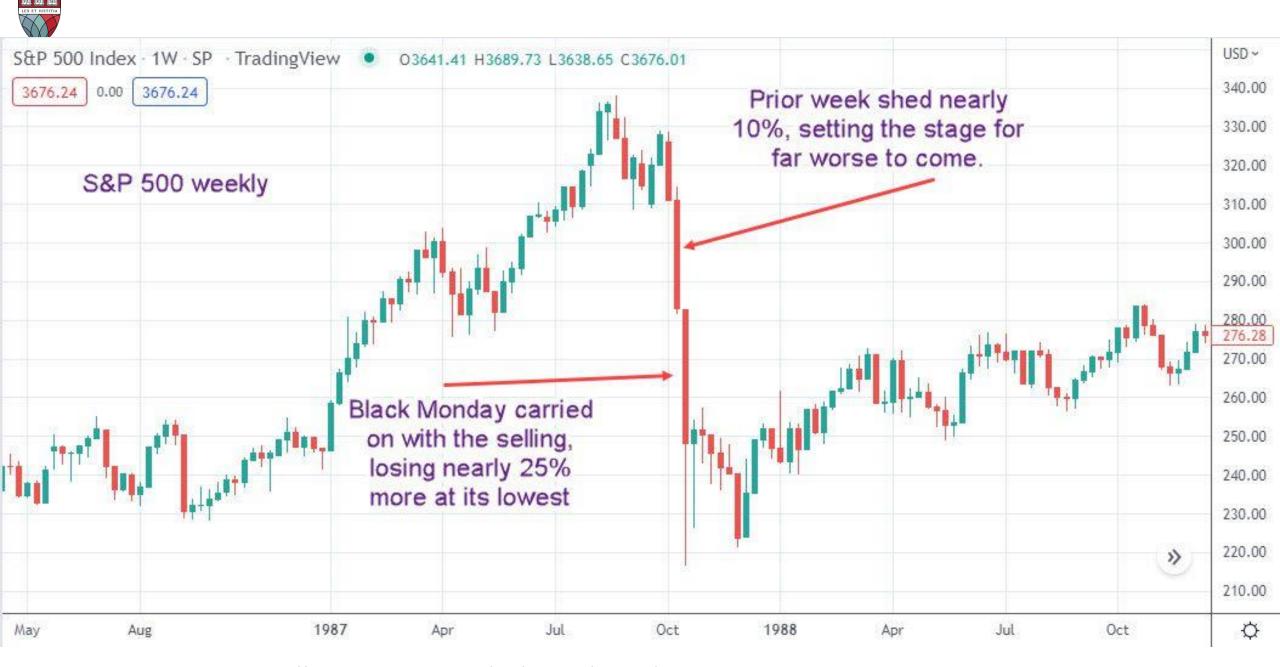
VE IRIT TAS

Figure 1: World GDP growth, 1998-2015



1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016

Source: UN/DESA.



Source: https://www.investopedia.com/ask/answers/042115/what-caused-black-monday-stock-market-crash-1987.asp



Contribution of Computer Trading

- "One automated trading strategy that appears to have been at the center of exacerbating the Black Monday crash was <u>portfolio insurance</u>. The strategy is intended to hedge a portfolio of stocks against market risk by short-selling stock index futures. This technique, developed by Mark Rubinstein and Hayne Leland in 1976, was intended to limit the losses a portfolio might experience as stocks decline in price without that portfolio's manager having to sell off those stocks.
- "These computer programs automatically began to <u>liquidate</u> stocks as certain loss targets were hit, pushing prices lower. To the dismay of the exchanges, program trading led to a domino effect as the falling markets triggered more <u>stop-loss</u> orders. The frantic selling activated yet further rounds of <u>stop-loss orders</u>, which dragged markets into a downward spiral. Because the same programs also automatically turned off all buying, <u>bids</u> vanished all around the stock market at basically the same time, further exacerbating the declines."
- Source: https://www.investopedia.com/ask/answers/042115/what-caused-black-monday-stock-market-crash-1987.asp



11000.00

10000.00

9000.00 8500.00 8000.00 7500.00 7000.00 6500.00 6000.00

5500.00 5000.00

4500.00 4000.00 3500.00

7591.930

2007-2008

History of Dow Jones Industrial Average 1900-2010

Source: http://www.stock-trading-warrior.com/

Stock-Market-History-Graph.html

